Approved for use through 10/31/2002. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UTILITY PATENT APPLICATION **TRANSMITTAL**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. FDS-P10.1-US Attorney Docket No. First Inventor Jonathan D. Douglas et al.

Title ESTIMATING EVAPOR. AIRFLOW... First Inventor

	Title					
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No. EU887664904US					
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231					
Fee Transmittal Form (e.g., PTO/SB/17)	7. CD-ROM or CD-R in duplicate, large table or					
1. (Submit an original and a duplicate for fee processing) Applicant claims small entity status.	Computer Program (Appendix)					
2. See 37 CFR 1.27.	Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)					
3. Specification [Total Pages 27]	a. Computer Readable Form (CRF)					
- Descriptive title of the invention	b. Specification Sequence Listing on:					
 Cross Reference to Related Applications Statement Regarding Fed sponsored R & D 	i. CD-ROM or CD-R (2 copies); or					
 Reference to sequence listing, a table, 	ii. paper					
or a computer program listing appendix - Background of the Invention	c. Statements verifying identity of above copies					
- Brief Summary of the Invention	ACCOMPANYING APPLICATION PARTS					
 Brief Description of the Drawings (if filed) Detailed Description 	9. Assignment Papers (cover sheet & document(s))					
- Claim(s)	37 CFR 3.73(b) Statement Power of					
- Abstract of the Disclosure	(when there is an assignee) Attorney					
4. Drawing(s) (35 U.S.C. 113) [Total Sheets 2]	11. English Translation Document (if applicable)					
5. Oath or Declaration (to except to [Total Pages 3]	12. Information Disclosure Copies of IDS Citations					
a. Unexecuted original or copy)	13. Preliminary Amendment					
b. Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed)	14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122					
i. DELETION OF INVENTOR(S)						
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR						
1.63(d)(2) and 1.33(b).	(b)(2)(B)(i). Applicant must attach form PTO/SB/35					
6. Application Data Sheet. See 37 CFR 1.76	or its equivalent. 17. Other: Cert. of Express Mailing (1 pg.)					
18. If a CONTINUING APPLICATION, check appropriate box, and supp						
or in an Application Data Sheet under 37 CFR 1.76:						
Continuation Divisional Continuation-in-part (CIP)	of prior application No.:/					
Prior application information: Examiner For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the	Group Art Unit:					
Box 5b, is considered a part of the disclosure of the accompanying continu The incorporation can only be relied upon when a portion has been inadvert	ration or divisional application and is hereby incorporated by reference.					
19. CORRESPONDE						
A 2 max						
Customer Number or Bar Code Label (Insert Customer No. or Attach bar	code label here) or Correspondence address below					
Name						
Address						
City	State Zip Code					
Country Tele	pphone Fax					
Name (Print/Type) Mark A. Garzia	Registration No. (Attorney/Agent) 35,517					
man of	7774422					
Signature /// L Ci / S	Date 7 3027 2003					

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JULY 2003

Date

PTO/SB/17 (01-03)

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	Complete if Known			
	Application Number	Not Yet Known		
	Filing Date	July 7, 2003 (anticipated)		
	First Named Inventor	Jonathan D. Douglas et al.		
-	Examiner Name	to be assigned		
_	Art Unit	to be assigned		
	Attorney Docket No.	FDS-P10.1-US		
-				

FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

2

Signature

TOTAL AMOUNT OF PAYMENT (\$) 375.00		Attorr	ney Doc	ket N	lo. FDS-P1	0.1-US		
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)						
Check Credit card Money Other None	3. A	3. ADDITIONAL FEES						
Deposit Account:	Large Entity Small Entity							
Deposit Deposit	Fee Code	Fee (\$)		Fee (\$)	Fee I	Description	5 D-14	
Account Number	1051	• • •	2051	. ,	Surcharge - late	filing fee or oath	Fee Paid	
Deposit Account	1052		2052	25	_	provisional filing fee or		
Name Land to suther land to such as the same l	1053	130	1053		Non-English spe	ecification		
The Commissioner is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments	1812	2,520	1812 2	,520	For filing a reque	est for ex parte reexamination		
Charge any additional fee(s) during the pendency of this application	1804	920*	1804			lication of SIR prior to		
Charge fee(s) indicated below, except for the filing fee		1,840*	1805 1		Requesting pub Examiner action	lication of SIR after		
to the above-identified deposit account.	1251	110	2251	55		ply within first month		
FEE CALCULATION	1252	410	2252	205		ply within second month		
1. BASIC FILING FEE Large Entity Small Entity	1253	930	2253			ply within third month		
Fee Fee Fee Fee Description Fee Paid	i .	1.450	2254	725		ply within fourth month		
Code (\$) Code (\$) 1001 750 2001 375 Utility filing fee	1255	1,970	2255	985		eply within fifth month		
3/5	1401	320	2401		Notice of Appea	•		
1002 330 2002 165 Design filing fee 1003 520 2003 260 Plant filing fee	1402		2402		• •	support of an appeal		
1004 750 2004 375 Reissue filing fee	1403	280	2403		Request for ora	**		
1005 160 2005 80 Provisional filing fee		1,510			•	ute a public use proceeding		
	1452		2452		Petition to reviv			
SUBTOTAL (1) (\$) 375.00	1453	1,300	2453	650	Petition to reviv	e - unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,300	2501		Utility issue fee			
Ext <u>ra Claims below</u> Fee Paid	1502	470	2502		Design issue fe	,		
Total Claims	1503	630	2503	315	Plant issue fee			
Claims 2 2 - 3 - 2 U X 2 = 0	1460	130	1460	130	Petitions to the	Commissioner		
	1807	50	1807	50	Processing fee	under 37 CFR 1.17(q)		
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806			nformation Disclosure Stmt		
Code (\$) Code (\$)	8021	40	8021	40	Recording each	patent assignment per number of properties)		
1202 18 2202 9 Claims in excess of 20 1201 84 2201 42 Independent claims in excess of 3	1809	750	2809		Filing a submiss	sion after final rejection		
1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	(37 CFR 1.129)	onal invention to be	$igwdate{}$	
1204 84 2204 42 ** Reissue independent claims	'''	. 50	20.0	9 / 3	examined (37 C		├──┤!	
over original patent	1801		2801	375	Request for Co	ontinued Examination (RCE)		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	1802 900 1802 900 Request for expedited examination of a design application						
SUBTOTAL (2) (\$) 0		Other fee (specify)					l	
**or number previously paid, if greater; For Reissues, see above	*Red	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0						
SUBMITTED BY (Complete (if applicable)								
Name (Print/Type) Mark A. Garzia	1	Registration No. 35			,517 Telephone 610.566.5050			

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

MARK A. GARZIA

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PATENT, TRADEMARK, COPYRIGHT AND RELATED MATTERS 10 VETERANS SQUARE P.O. BOX 288 MEDIA, PA 19063-0288

ATTORNEY AT LAW Admitted in PA and NJ Registered Patent Attorney

Date: July 7, 2003

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT

: Jonathan D. Douglas et al.

TITLE

ESTIMATING EVAPORATOR AIRFLOW IN

VAPOR COMPRESSION CYCLE COOLING

EQUIPMENT

APPLN. NO.

(Not Yet Assigned)

FILING DATE

July 7, 2003 (Anticipated)

ATTORNEY DOCKET NO.

FDS-P10.1-US

TO: Mail Stop PATENT APPLICATION

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

CERTIFICATE OF EXPRESS MAILING (37 C.F.R. §1.10)

Express Mail Label No. EU887664422US

I hereby certify that this new patent application, including the following papers or fees:

- 1) Utility Patent Application Transmittal (Form PTO/SB/05 1 pg.);
- 2) Fee Transmittal for FY 2003 (1 pg.);
- 3) Specification (27 Total pgs. including Description 20 pgs., Claims 6 pgs., and Abstract 1 pg.);
- 4) Drawings (2 pgs.);
- 5) Unsigned Declaration and Power of Attorney (3 pgs.);
- 6) Credit Card Payment Form PTO-2038 in the amount of \$375.00 for the filing fee; and
- 7) A self-addressed postcard, postage prepaid, to acknowledge receipt of this Application

is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 C.F.R. §1.10, postage prepaid, on the date indicated below and is addressed to: Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: 7 JULY 2003

Mark A Garzia